•			,						Sheet 1 of 1	
FÖRM P	TO-14	49	, 			Att U11	y. Docket .12-0161	No.:	Appl. No.: 10/801,940	
	LI	ST OF PATENTS AN APPLITMENT'S	ND PUBLICA: INFORMATI STATEMEN	rions for on		First Named Inventor:				
		/ &				Kan	g-Hyun Ba			
		Q OCT 1 1 2005 2				Fil	ing Date	Group Art:		
		THE STATE OF	3/			Mar	ch 16, 20	04	2873	
			υ.:	S. PATENT	DOCUMENTS					
Exami Init		Document No.	Date	1	lame		Class	Sub Class	Filing Date If Appropriate	
	JA									
	JB									
	JC									
	JD	,							· · · · · · · · · · · · · · · · · · ·	
	JE									
	JF			·	•		1			
	JG		500	7011 71 701	- BOCKINES					
	Г		FORE	CIGN PATENT	DOCUMEN.	13		T 6	Translation	
		Document No.	Dat	e	Country	•	Class	Sub Class	Yes No	
	JH							1		
		OTHER ART (Inc	cluding Aut	hor, Title	e, Date, I	Perti	inent Page	s; Etc.)		
Sutt	-JI	"Notification of Opinion of the	f Transmit Internatio	tal of the	Internat	tiona ty fo	l Search or PCT/US2	Report an 005/00756	d the Written	
	JJ									
	JK		•							
	JL									
	JM									
	JN									
	JO									
	JP									
	JQ	0 11								
ÉXAMI	NER:	B. He	aly		DATE CO	NSID	ERED:	12/0	2/05	

DATE CONSIDERED:

DZ

IO IP

**EXAMINER:** 

STOR PATENTS AND PUBLICATIONS FOR CAPPLICANT'S INFORMATION PLISCLOSURE STATEMENT

FORM PTO-1449

Atty. Docket No.:

U11.12-0161

Kang-Hyun Baek

Filing Date Group Art: March 16, 2004 2873

## U.S. PATENT DOCUMENTS

niner tial	Document No.	ment No. Date Name		Class	Sub Class	Filing Date If Appropriate
 EA		FOR	IGN PATENT DOCUMENTS			
	Document No.	Dat		Class	Sub Class	Translation Yes No
EB						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	·						
Burt	S. Noda, K. Tomoda, N. Yamanoto, A. Chutinan, "Full three-dimensional photonic bandgap crystals at near-infrared wavelengths", <i>Science</i> , vol. 289, pp. 604-606, Jul., 2000.						
SUNT E	Y.A. Vlasov, XZ. Bo, J.C. Sturm, D.J. Norris, "On-chip natural assembly of silicon photonic bandgap crystals", <i>Nature</i> , vol. 414, pp. 289-293, Nov., 2001.						
Quit E	G.H. Bogush, M.A. Tracy, C.F. Zukoski IV, "Preparation of monodisperse silica particles: Control of size and mass fraction", J. Non-Crystalline Solids, vol. 104, pp. 95-106, 1988.						
QMD E	S.L. Chen, P. Dong, GH. Yang, JJ. Yang, "Characteristic aspects of formation of new particles during the growth of monosize silica seeds", Journal of Colloid and Interface Science, vol. 180, pp. 237-241, 1996.						
Gulf E	W. Stober, A. Fink, E. Bohn, "Controlled growth of monodisperse silica spheres in the micron size range", J. Colloid and Interf. Sci., vol. 26, pp. 62-69, 1968.						
Sut E	D.W. McComb, B.M. Treble, C.J. Smith, R.M. De La Rue and N. P. Johnson, "Synthesis and characterization of photonic crystals", J. Mater. Chem., vol. 11, pp. 142-148, 2001.						
But E	P. Ni, P. Dong, B. Cheng, X. Li, D. Zhang, "Synthetic SiO2 opals", Adv. Mater. vol. 13, pp. 437-441, Mar. 2001.						
SW) E	P. Jiang, J.F. Bertone, K.S. Hwang, V.L. Colvin, "Single-crystal colloidal multilayers of controlled thickness", Chem. Mater., vol. 11, pp. 2132-2140, 1999.						
Bult E	C.F. Blanford, R.C. Schroden, M. Al-Daous, A. Stein, "Tuning solvent-dependent color changes of three-dimensionally ordered macroporous (3DOM) materials through compositional and geometric modifications", Adv. Mater., vol. 13, pp. 26-29, Jan., 2001.						
EXAMINER	DATE CONSIDERED: 12/02/05						

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
FA						

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
FB			· ·			

# OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

8	2mt	FC	E. Yablonovich, Inhibited spontaneous emission in solid state physics and electronics, Phys. Rev. Lett., Vol. 58, pp. 2059-2062, 1987.			
	mit	FD	O. Painter, J. Vuckovic, A. Yariv, A. Scherer, J. D. O'Brien, P. D. Dapkus, Two dimensional photonic band gap defect mode laser, Science, Vol. 284, pp. 1819-1821, 1999.			
Š	sut	FE	E. R. Brown, O. B. McMahon, High zenithal directivity from a dipole antenna on a photonic crystal, Appl. Phys. Lett., vol. 68, pp. 1300-1302, 1996.			
6	int	FF	B. Temelkuran, M. Bayindir, E. Ozbay, R. Biswas, M. M. Sigalas, G. Tuttle, K. M. Ho, Photonic crystal-based resonant antenna with a very high directivity, J. Appl. Phys., Vol. 87, pp. 603-605, 2000.			
Ç	Zust	FG	J. G. Fleming, S-Y. Lin, Three dimensional photonic crystal with a stop band from 1.35 to 1.95μm, Optics Lett., vol. 24, pp. 49-51, 1999.			
Ę	ZNA	FH	Special Section on Electromagnetic Crystal Structures, Design, Synthesis, and Applications, Journal of Lightwave Technology, Vol. 17, pp. 1944-1947, 1999.			
Ä	2mV+	FI	Special issue of Advance Materials, Vol. 13, no 6, pg. 369, 2001.			
Z	Surd	FJ	Special Feature Section on Photonic Crystal Structures and applications, IEEE J. Quantum Electronics, Vol 38, July 2002. Dimensional photonic			
S. John, K. Busch, Photonic bandgap formation and tunablity in certain organizing systems, Journal of Lightwave Technology, vol. 17, pp. 1931 1999.						
	But	FL	E. Palacios-Lidon, A. Blanco, M. Ibisate, F. Meseguer, C. Lopez, J. Sanchez-Dehesa, Optical study of the full photonic band gap in silicon inverse opals, Appl. Phys. Lett., Vol. 81, no. 21, pp. 4925-4927, 2002.			
•	EXAMI	NER:	G-Healy DATE CONSIDERED: 12/02/05			

K. R. Williams, R. S. Muller, Etch rates for micromachining processing, J.

DATE CONSIDERED:

structures, comput. Phys. commun., Vol. 85, pp. 306-322, 1995.

Microelectromechanical Systems, Vol. 5, pp. 256 -269, 1996.

GK

**EXAMINER:** 

DATE CONSIDERED:

HN

**EXAMINER:** 

Atty. Docket No.: U11.12-0161 Appl. No.: 10/801,940 FORM PTO-1449 First Named Inventor: LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT Kang-Hyun Baek Group Art: Filing Date 2873 March 16, 2004

## U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
ZM	AA 2001/0019037 7/2001		7/2001	Zakhidov et al.	216	56	
3714	AB	2002/0024163	2/2002	Fu et al.	264	42	
pmla	AC	2002/0045030	4/2002	Ozin et al.	428	173	
3418	AD	2002/0062782	5/2002	Norris et al.	117	3	
241	AE	2002/0126713	9/2002	Ibanescu et al.	372	- 6	
DING	AF	2002/0164137	11/2002	Johnson et al.	385	125	
BWB	AG	2002/0173610	11/2002	Aert et al.	526	303.1	
[MA	AH	2002/0176676	11/2002	Johnson et al.	385	125	
put	AI	2002/0189947	12/2002	Paul et al.	204	461	
MIA	AJ	2002/0195344	12/2002	Neyer et al.	204	600	
3nx	AK	2003/0008771	1/2003	Fu et al.	502	159	
SMIR	AL	2003/0012657	1/2003	Marr et al.	417	48	
MA	AM	2003/0020399	1/2003	Moller et al.	313	504	
WY.	AN	2003/0021518	1/2003	Smirnov et al.	385	15	
ZWIF	AO	2004/0013379	1/2004	Johnson et al.	385	125	
ZMW	AP	2004/0020423	2/2004	Lewis, III et al.	117	. 8	·
3 wit	AQ	2003/0031407	2/2003	Weisberg et al.	385	28	
and	AR	2003/0063426	4/2003	Smirnov et al.	361	159	

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
 AS						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AT					
EXAMINER: 5.	Healy	DATE CONSIDERED:	12/	02/0	5

		Ducer s of d	
FORM PTO-1449	Atty. Docket No.: U11.12-0161	Appl. No.; 10/801,940	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:		
	Kang-Hyun Baek		
	Filing Date	Group Art:	
·	March 15.2 004	2873	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date Name		Class	Sub Class	Filing Date If Appropriate
2M BA	2003/0103721	6/2003	Padmanabhan et al.	385	24	
EM VIBB	2003/0136946	7/2003	Kumacheva	252	500	
3WW BC	2003/0143081	7/2003	Rakestraw et al.	417	48	
CANO BD	2003/0148088	8/2003	Padmanabhan et al.	428	304.4	
BMO BE	2003/0156319	8/2003	John et al.	359	341.5	
BUS BF	2003/0185505	10/2003	Weisberg et al.	385	28	
BG BG	2003/0206806	11/2003	Paul et al.	417	48	
SALA BH	2004/0017834	1/2004	Sundar et al.	372	_ 39	
ON W BI	6, 139, 626	10/2000	Norris et al.	117	68	
BNY BJ	6,228,340	5/2001	Imhof et al.	423	338	
BAND BK	6,261,469	7/20001	Zakhidov et al.	216	56	
MA BL	6,414,043	7/2002	Asher et al.	521	61	
GWW BM	6,436,187	8/2002	Patel et al.	117	68	
SW/18 BN	6,517,763	2/2003	Zakhidov et al.	264	344	
BM8 BO	6,555,945	4/2003	Baughman et al.	310	300	
GANT BP	6,563,981	5/2003	Weisberg et al.	385	28	
GWV BQ	6,589,629	7/2003	Bao et al.	428	144	
BAN BR	6,625,364	9/2003	Johnson et al.	385	127	

# FOREIGN PATENT DOCUMENTS

•		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	BS		, , , , , , , , , , , , , , , , , , ,				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BT				
EXAMINER: B Bea	V DATE CONSIDERED:	12	102 105	

FORM PTO-1449	Atty. Docket No.: U11.12-0161	Appl. No.: 10/801,940	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:		
	Kang-Hyun Baek	•	
	Filing Date	Group Art:	
	March 16, 2040	2873	

#### U.S. PATENT DOCUMENTS

Exam: Init		Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
BMK	CA	6,680,013	1/2004	Stein et al.	264	44	. ———
7	СВ						
	СС						

# FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
BMA	CD	1 247 820 A1	10/2002	EPO	385	122×	х
BND	CE	1 081 513 A1	3/2001	EPO	385	122X	х
and	CF	WO 99/01766	1/1999	WIPO	385	122X	Χ .
SMY	CG	WO 99/47570	9/1999	WIPO	285	122×	x
gull	СН	WO 00/21905	4/2000	WIPO	385	122×	х
amis	CI	WO 00/50771	8/2000	WIPO	385	122X	х
BMF	ÇJ	WO 01/18283 A1	3/2001	WIPO .	385	1227	· <b>x</b>
GWB	СК	WO 01/55484 A2	8/2001	WIPO	385	)22X	x
(SWV)	CL	WO 01/62830 A2	8/2001	WIPO	385	1227	X
Zur	СМ	WO 01/66833 A1	9/2001	WIPO	385	122%	x
BMT	CN	WO 01/96635 A2	12/2001	WIPO	385	122X	x
and	co	WO 01/86038 A2	11/2001	WIPO	385	122×	x
SMY	CP	WO 02/059656 A2	8/2002	WIPO	385	122X	X
3M	CÕ	WO 02/059663 A1	8/2002	MIBO	385	1227	x
ARIGH KI	CR	WO 02/061467 A2	8/2002	WIPO	385	125 X	x
Jen	cs	WO 02/091028 A2	11/2002	WIPO	385	123 X	х

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CT	0			1	1	
EXAMINER:	B. Heal.	DATE CONSIDERED:	12	12	05	

		Sheet 4 of	
PORM PTO-1449	Atty. Docket No.: U11.12-0161	Appl. No.: 10/801,940	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:		
	Kang-Hyun Baek		
	Filing Date	Group Art:	
	March 16, 2004	2973	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
DA						
DB.						
DC						
DD						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
Bull	DE	WO 02/33461 A2	4/2002	WIPO	385	122X	x
and	DF	WO 02/44301 A2	6/2002	WIPO	385	122X	x
Ju 10	DG	WO 02/101474 A2	12/2002	WIPO	385	122 X	x
6 mg	DH	WO 03/007663 A1	1/2003	WIPO	382	122X	x
and	DI	WO 04/009724 A2	1/2004	WIPO	385	122X	x
MY	DJ	WO 04/013383 A1	2/2004	WIPO	385	1222	X
	DK						
	DL						·
	ÐM						·
	DN						,

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Sult 00	"Optical coupling between monocrystalline colloidal crystals and a planar waveguide", by Y. Zhao et al., APPLIED PHYSICS LETTERS, Vol. 75, No. 23, pgs. 3596-3598, (6 December 1999).
SUM DP	"Two-dimensional colloidal crystal corrugated waveguides", by Y. Zhao et al., OPTICS LETTERS, Vol. 24, No. 12, pgs. 817-819, (June 15, 1999).
BWNO DO	"Optical Demultiplexing in a Planar Waveguide with Colloidal Crystal", by I. Avrutsky et al., IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 12, No. 12, pgs. 1647-1649, (12 December 2000).
EXAMINER:	B. Baly DATE CONSIDERED: 12/2/05